BRUHATH BENGALURU MAHANAGARA PALIKE

QUALITY CONTROL TEST REPORT

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

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QC ABSTRACT

Nameof Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	Materials	36.56 Cum	1	1	Pass
2	Steel	1513.84 Kgs	1	1	Pass
3	M15	22.71 Cum	3	3	Pass
4	M25	0.17 Cum	1	1	Pass
5	M30	20.77 Cum	3	3	Pass
6	M20	14.54 Cum	2	4	Pass
7	Paver Blocks-60mm	207.70 Sqm	1	1	Pass
8	Paver Blocks-75mm	207.70 Sqm	1	1	Pass
9	Precast Slab-100mm	12.60 Sqm	1	1	Pass
10	Precast Slab-230mm	4.95 Sqm	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

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Authorised Signatory

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No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/LV/W.No.05/2022-23 Date: 22.02.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
AGENCY	:	**Smt Likith V (Shree Byraveshwara Constructions),** Contractor, Bangalore.
NAME OF THE WORK	:	"Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE	:	Jan – 2023
DATE OF TESTING	:	20.02.2023 to 22.02.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	325 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CACE/BBMP/LV/W.No.05/2022-23 Date : 22.02.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of Work :"Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

Date of Testing : 22.02.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	180	3.6	3.6	96.4	95-100
10	2492	49.8	53.4	46.6	25-55
4.75	1985	39.7	93.1	6.9	0-10

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Job No.: CACE/BBMP/LV/W.No.05/2022-23 Date : 22.02.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of Work :"Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

Date of Testing : 22.02.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	170	1.13	1.13	98.87	95-100
20	8170	54.47	55.60	44.40	30-70
10	3225	21.50	77.10	22.90	10-35
4.75	2819	18.79	95.89	4.11	0-5

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Job No.: CACE/BBMP/LV/W.No.05/2022-23 Date: 20.03.2023

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client : **: Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.**

Contractor : **: Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of Work : :"Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

No.of Sample Tested : 03
Date of Testing : 20.03.2023
Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	111.00	1.779	2519.29	1.23	0.917	112.80	17.73	19.15	17.56	21.95
2	90.00	112.00	1.785	2505.22	1.24	0.918	113.50	17.84	19.27	17.70	22.12
3	90.00	113.00	1.789	2488.61	1.26	0.920	113.80	17.89	19.32	17.77	22.21

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Job No.: CACE/BBMP/LV/W.No.05/2022-23

Date : 22.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP,**

Agency : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of Work :"Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

Date of Testing : 22.02.2023

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	20	2.00	2.00	98.0	90-100
1.18	49	4.90	6.90	93.1	70-100
600 Micron	93	9.30	16.20	83.8	40-100
300 Micron	252	25.20	41.40	58.6	5-70
150 Micron	492	49.20	90.60	9.4	0-15

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Job No.: CACE/BBMP/LV/W.No.05/2022-23

Date : 24.02.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.**

AGENCY : **Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of Work :"Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

Steel Dia/Length :8mm, 10mm,12mm,16mm" Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 24.02.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.399	535	620	1.16	14.5
2	TMT	10	0.619	542	635	1.17	15.5
3	TMT	12	0.889	550	640	1.16	15
4	TMT	16	1.585	563	653	1.16	17

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Job No.: CACE/BBMP/LV/W.No.05/2022-23

Date: 20.03.2023

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP,**
Contractor	:	**: Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**
Name of Work	:	:"Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	20.03.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

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Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.379	2443.33	1.58	0.955	33.80	17.21	18.59	17.75	22.19
2	50.00	80.00	0.382	2431.89	1.60	0.957	34.10	17.37	18.76	17.95	22.43
3	50.00	81.00	0.389	2445.88	1.62	0.959	34.40	17.52	18.92	18.14	22.68

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Job No.:CACE/BBMP/LV/W.No.05/2022-23 **Date:** 03.04.2023

TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Smt Likith V (Shree Byraveshwara Constructions),** Contractor, Bangalore.
Name of the work	:	"Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.
Type of the test	:	Physical tests on Paver Blocks
Date of Testing	:	03.04.2023
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	75.15	75.16
2	02	75.17	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	699.2	24,200	28.89	288.9	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	697.3	24,200	28.81	288.1	

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Job No.: CACE/BBMP/LV/W.No.05/2023-24

Date: 11.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.**

Agency :**Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of the work : "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2023	11.04.2023	8.178	478.9	21.28
2	14.03.2023	11.04.2023	8.194	486.2	21.61
3	14.03.2023	11.04.2023	8.199	492.5	21.89

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Job No.: CACE/BBMP/LV/W.No.05/2022-23

Date: 31.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.**

Agency :**Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.**

Name of the work : "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2023	31.03.2023	8.120	330.1	14.67
2	24.03.2023	31.03.2023	8.141	332.7	14.79
3	24.03.2023	31.03.2023	8.152	333.8	14.84

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/LV/W.No.05/2023-24

Date: 02.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : Smt Likith V (Shree Byraveshwara Constructions), Contractor, Bangalore.

Name of the work :"Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2023	02.05.2023	8.145	372.8	16.57
2	04.04.2023	02.05.2023	8.159	375.9	16.71
3	04.04.2023	02.05.2023	8.169	378.1	16.80

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ ಬಿ.ಎ೦.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

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Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2023	02.05.2023	8.160	378.9	16.84
2	04.04.2023	02.05.2023	8.167	382.4	17.00
3	04.04.2023	02.05.2023	8.172	387.3	17.21

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2023	02.05.2023	8.172	371.9	16.53
2	04.04.2023	02.05.2023	8.177	375.3	16.68
3	04.04.2023	02.05.2023	8.185	381.9	16.97

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Job No.: CACE/BBMP/LV/W.No.05/2023-24 Date: 10.05.2023

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.04.2023	10.05.2023	8.175	705.2	31.34
2	12.04.2023	10.05.2023	8.189	716.9	31.86
3	12.04.2023	10.05.2023	8.196	724.5	32.20

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.04.2023	10.05.2023	8.171	725.8	32.26
2	12.04.2023	10.05.2023	8.179	716.3	31.84
3	12.04.2023	10.05.2023	8.185	705.3	31.35

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